

CURRICULUM VITAE

PERSONAL RECORD

Name: Nawab Hussain

Father's Name: Abdullah

Marital Status: Married

Date of Birth: 22-03-1967

Religion: Islam

Nationality: Pakistani

Telephone: (Res) 00966-2-6331085, Mob. No. 00966-551956186

E-mail Address: nhusain@kau.edu.sa mnawab2000@yahoo.com

Mailing Address: Department of Mathematics, King Abdulaziz University, P. O. Box 80203, Jeddah 21589, Saudi Arabia.

EDUCATIONAL RECORD

Ph. D. (January 2002) Bahauddin Zakariya University Multan, Pakistan

M.Phil. (1992) Quaid-i-Azam University Islamabad, Pakistan

M.Sc. (1988) Bahauddin Zakariya University Multan, Pakistan

B.Sc. (1985) Islamia University, Bahawalpur, Pakistan

AWARDS/HONOURS

1. Gold Medal on the basis of first position in B.Sc. from Islamia University, Bahawalpur, Pakistan.
2. Gold Medal on the basis of first position in M.Sc. from B. Z. University, Multan, Pakistan.
3. Merit Cash award on the basis of first position in B.Sc. from Ministry of Education, Islamabad, Pakistan.
4. Merit Cash award on the basis of first position in B.Sc. from Islamia University, Bahawalpur, Pakistan.
5. Pakistan Atomic Energy Commission (PAEC) Talent Scholarship for the studies of M. Phil. Mathematics.

FIELD OF RESEARCH

Functional Analysis (Fixed Point Theory, Approximation Theory and Applications)

TOPIC OF Ph.D. THESIS

Some Types of Best Approximation and their Applications

EMPLOYMENT RECORD

Professor, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia, 10-09-2011 to date.

Associate Professor, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia, 19-06-2007 to 09-09-2011.

Assistant Professor, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia, (28th January 2004 to 18-06-2007).

Assistant Professor, CASPAM, B. Z. University, Multan, Pakistan, (28th January 2002 - 27th January 2004).

Lecturer, CASPAM, B. Z. University, Multan, Pakistan, (21st March 1994 - 27th January 2002).

Visiting Faculty, CASPAM, B. Z. University, Multan, Pakistan, (January 1992 - 20th March 1994).

SEMINARS / INVITED LECTURES

1. Common fixed points in best approximation theory, Functional Analysis Day, Department of Mathematics, Lahore University of Management Sciences (LUMS), Lahore, Pakistan, March, 2002.
2. Common fixed points from best approximation, Conference/Colloquium Series held at Govt. College University (G.C.U) Lahore, Pakistan, June, 2002.
3. Random fixed points and random approximations, 2-day Workshop on Computational Mathematics and related topics, Department of Mathematical Sciences, COMSATS Institute of Information Technology, Islamabad , Pakistan, July, 2002 .
4. Common fixed point and invariant approximation results on non-starshaped domains , Summer School on Fixed point theory, Department of Mathematics, Lahore University of Management Sciences (LUMS), Lahore, Pakistan, Aug., 2005.
5. Fixed Point Theory Day, Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, Nov. 2008.
6. Nonexpansive Retracts, Weak Compatible and Banach Operator Pairs, International Conference on the Theory, Methods and Applications of Nonlinear Equations, A & M University, Kingsville TX, USA, 17-22 Dec.2012.

PROFESSIONAL ACTIVITIES

Reviewer: Zentralblatt MATH

Referee:

Journal of Mathematical Anal. and Appl.(JMAA), Elsevier
Abstract and Applied Analysis (AAA)USA
Mathematical and Computer Modelling(MCM), Elsevier
Applied Mathematics Letters(AML), Elsevier
Computers and Mathematics with Applications (CAMWA), Elsevier
Fixed Point Theory and Applications (FPTA)USA
J. Fixed Point Theory (FPT)Romania
International Journal of Mathematics and Mathematical Sciences (IJMMS)USA
Carpathian J. Math.
Arabian Journal for Science and Engineering,(AJSE), Springer
Southeast Asian Bulletin of Mathematics (SEAMS BULL. MATH.)China
Nonlinear Functional Analysis and Applications (NFAA)Korea
Bulletin of the Malaysian Mathematical Sciences Society (BULLETIN
MMSS)Malaysia
Bulletin of the Iranian Mathematical Society(BIMS)Iran
J. Adv. Math. Stud.
Journal Advanced Research in Pure Mathematics (JARPM)
Bulletin of Mathematical Analysis and Applications (BMAA)

RESEARCH SUPERVISION (M. Phil.)

Ghulam Mustafa, Fixed point theorems for multivalued mappings, 1996.

Muhammad Zahid, Deterministic and random fixed point and approximation results, (2005).

Naeem Shafqat, Common fixed point results in certain topological vector spaces, (2005).

SUBJECTS TAUGHT

At Postgraduate Level

Functional Analysis
Approximation Theory
Measure Theory and Integration
Theory of Automata
Fixed Point Theory

At B.Sc. Level

Calculus
Foundations of Mathematics
Real Analysis
Fourier Series
Complex Analysis

REFERENCES

1. Professor G. Jungck, Department of Mathematics, Bradley University, Peoria, Illinois 61625, USA
e-mail: [gfj@bumail.bradley.edu](mailto:gfej@bumail.bradley.edu) [gfj@hilltop.bradley.edu](mailto:gfej@hilltop.bradley.edu)
2. Professor Ravi P. Agarwal, Department of Mathematics, Texas A&M University - Kingsville 700 University Blvd. Kingsville, TX 78363-8202/KAU Jeddah, Saudi Arabia
e-mail: Agarwal@tamuk.edu agarwal@fit.edu
3. Professor Abdul Rahim Khan, Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia
e-mail: arahim@kfupm.edu.sa
4. Professor Rafa Espinola, Dpto. de Analisis Matematico, Universidad de Sevilla, P.O.Box 1160, 41080-Sevilla, Spain
e-Mail: espinola@us.es

RESEARCH PUBLICATIONS

1. S. M. Alsulami, N. Hussain, W. Takahashi, Weak convergence theorems for semigroups of not necessarily continuous mappings in Banach spaces, Journal of Convex Analysis, Volume 22 (2015).....
2. A. R. Khan, N. Hussain, N. Yasmin and N. Shafqat, Random coincidence point results for weakly increasing functions in partially ordered metric spaces, Bulletin of the Iranian Mathematical Society, in press
3. N. Hussain, N. Yasmin and N. Shafqat, Multi-valued Ćirić contractions on metric spaces with applications, Filomat, in press
4. N. Hussain, Hasan Hosseinzadeh, V. Parvaneh, Lj. B. Ćirić, PPF dependent fixed point results for hybrid rational and Suzuki-Edelstein type contractive mappings in Banach spaces, Filomat, in press

5. N.Hussain, A. Azam, J. Ahmad, M. Arshad, Common fixed point results in complex valued metric spaces with application to integral equations, Filomat, in press
6. P. Salimi, N. Hussain, A. Roldan, E. Karapınar, On modified α - ϕ -asymmetric Meir-Keeler contractive mappings, Filomat, in press
7. N. Hussain, P Salimi, Fixed points for generalized ψ -contractions with application to integral equations, J. Nonlinear and Convex Analysis,(in press)
8. J. Ahmad, N.Hussain, A. Azam, M. Arshad, Common fixed point results in complex valued metric space with applications to system of integral equations, J. Nonlinear and Convex Analysis, in press
9. M. H. Shah, N. Hussain, Lj. B. Ćirić, Existence of fixed points of mappings on general topological spaces, Filomat,(in press)
10. N. Hussain, P. Salimi, Suzuki-Wardowski type fixed point theorems for α -GF-contractions, Taiwanese Journal of Mathematics, in press
11. N. Hussain, V. Parvaneh, J.R. Roshan, Fixed point results for G- α -contractive maps with application to boundary value problems, The Scientific World Journal, Vol. 2014, Article ID 585964.
12. N. Hussain, M. Arshad, A. Shoaib and Fahimuddin, Common Fixed Point results for α - ψ -contractions on a metric space endowed with graph, Journal of Inequalities and Applications, 2014, 2014:136.
13. N. Hussain, S. Khaleghizadeh, P. Salimi, Afrah A. N. Abdou, A new approach to fixed point results in triangular intuitionistic fuzzy metric spaces, Abstract and Applied Analysis, Vol. 2014, Article ID 690139, 17 pp.
14. N. Hussain, Reza Saadati, Ravi P Agrawal, On the topology and wt-distance on metric type spaces, Fixed Point Theory and Applications 2014, 2014:88.
15. Nawab Hussain, Mujahid Abbas, A. Azam and J. Ahmad, Coupled coincidence point results for a generalized compatible pair with applications, Fixed Point Theory and Applications 2014, 2014:62.
16. Nawab Hussain, Jamal Rezaei Roshan, Vahid Parvaneh and Zoran Kadelburg, Fixed points of contractive mappings in b-metric-like spaces, The Scientific World Journal, Vol. 2014, Article ID 471827, 15 pp.
17. M. A. Kutbi, A. Amini-Harandi, N. Hussain, A generalization of a Greguš fixed point theorem in metric spaces, J. Applied Mathematics, Vol. 2014, Article ID 580297, 5 pp.

18. N. Hussain, P Salimi, P. Vetro, Fixed points for Suzuki- φ - ψ -contractions with applications to integral equations, Carpathian J. Mathematics, in press
19. N. Hussain, Erdal Karapinar, Shaban Sedghi, Nabi Shobe and S. Firouzian, Cyclic (ϕ)-contractions in uniform spaces and related fixed point results, Abstract and Applied Analysis, Vol. 2014, Article ID 976859, 7 pp.
20. Nawab Hussain, Abdul Latif and Peyman Salimi, Best proximity point results in G-metric spaces, Abstract and Applied Analysis, Vol. 2014, Article ID 837943, 8 pp.
21. N. Hussain, J.R. Roshan, V. Parvaneh, A. Latif, A unification of G -metric, partial metric and b -metric spaces, Abstract and Applied Analysis, Volume 2014, Article ID 180698, 15 pp.
22. N. Hussain, M. A. Kutbi, S. Khaleghizadeh and P. Salimi, Discussions on recent results for α - ψ -contractive mappings, Abstract and Applied Analysis, Vol. 2014, Article ID 456482, 13 pp.
23. N. Hussain, M. A. Kutbi and P.Salimi, Fixed point theory in α -complete metric spaces with applications, Abstract and Applied Analysis, Vol. 2014, Article ID 280817, 11 pp.
24. N. Hussain, A Latif and P. Salimi, Best proximity point results for modified Suzuki α - ψ -proximal contractions, Fixed Point Theory and Applications, 2014, 2014:10.
25. A.R.Khan, V. Kumar, N. Hussain, Analytical and numerical treatment of Jungck-Type iterative schemes, Applied Mathematics and Computation, 231(2014), 521-535.
26. Sh. Fathollahi, N Hussain and Liaqat Ali Khan, Fixed point results for modified weak and rational α - ψ -contractions in ordered 2-metric spaces, Fixed Point Theory and Applications, 2014, 2014:6.
27. Marwan A Kutbi, N. Hussain, Arif Rafiq, Mohammad Masjed-Jamei, Generalized Chebyshev inequalities with applications, J. Comput. Anal. Appl., VOL. 16, NO.4, 2014, 763-776.
28. Nawab Hussain, Soomieh Khaleghizadeh, Peyman Salimi and F. Akbar, New fixed point results with PPF dependence in Banach spaces endowed with a graph, Abstract and Applied Analysis, Volume 2013, Article ID 827205, 9 pp.
29. Saud Mastour A. Alsulami, Eskandar Naraghirad and Nawab Hussain, Strong convergence of iterative algorithm for a new system of generalized $H(.,.)$ - η -cocoercive operator inclusions in Banach spaces, Abstract and Applied Analysis, Volume 2013, Article ID 540108, 10 pp.

30. N. Hussain, Wataru Takahashi, Weak and strong convergence theorems for semigroups of mappings without continuity in Hilbert spaces, *J. Nonlinear and Convex Analysis*, Vol. 14, No.4, 2013, 769–783.
31. A. Amini-Harandi, M. Fakhar, H. R. Hajisharifi, N. Hussain, Some new results on fixed and best proximity points in preordered metric spaces, *Fixed Point Theory and Applications*, 2013, 2013:263.
32. N. Hussain, V. Parvaneh, J. R. Roshan and Z. Kadelburg, Fixed points of cyclic weakly (ψ, φ, L, A, B) -contractive mappings in ordered b-metric spaces with applications, *Fixed Point Theory and Applications*, 2013, 2013:256.
33. Dinu Teodorescu and Nawab Hussain, On Lipschitz perturbations of a self-adjoint strongly positive operator, *J. Function Spaces and Applications*, Vol 2013, Article ID 902563,
34. Nawab Hussain, Jamal Rezaei Roshan, Vahid Parvaneh and Mujahid Abbas, Common fixed point results for weak contractive mappings in ordered b-dislocated metric spaces with applications, *J. Inequalities and Applications*, 2013, 2013:486.
35. N. Hussain, D R Sahu, Arif Rafiq, Iteration scheme for common fixed points of hemicontractive and nonexpansive operators in Banach spaces, *Fixed Point Theory and Applications*, 2013, 2013:247.
36. N. Hussain, P. Salimi and Saleh Al-Mezel, Coupled fixed point results on quasi-Banach spaces with application to a system of integral equations, *Fixed Point Theory and Applications*, 2013, 2013:261.
37. N. Hussain, S. Al-Mezel and Peyman Salimi, Fixed points for ψ -graphic contractions with application to integral equations, *Abstract and Applied Analysis*, Vol., 2013, Article ID 575869, 11 pp.
38. M A Alghamdi, N Hussain and P Salimi, Fixed point and coupled fixed point theorems on b-metric-like spaces, *J. Inequalities and Applications*, 2013, 2013:402.
DOI: 10.1186/1029-242X-2013-402
39. N. Hussain, P Salimi and A. Latif, Fixed point results for single and set-valued α - η - ψ -contractive mappings, *Fixed Point Theory and Applications*, 2013, 2013:212.
40. Nabi Shobe, Shaban Sedghi, J.R. Roshan and N. Hussain, Suzuki-type fixed point results in metric-like spaces, *J. Function Spaces and Applications*, Vol., 2013, Article ID 143686.

41. N. Hussain, M. A. Kutbi and P.Salimi, Best proximity point results for modified α - ψ -proximal rational contractions, *Abstract and Applied Analysis*, Vol., 2013 Article ID 927457, 14 pp.
42. N. Hussain and Mohamed Aziz Taoudi, Krasnosel'skii-type fixed point theorems with applications to Volterra integral equations, *Fixed Point Theory and Applications*, 2013, 2013:196, DOI: 10.1186/1687-1812-2013-196.
43. Lu Chuan Ceng, Nawab Husain, Abdul Latif and Jen Chih Yao, Strong convergence for solving general system of variational inequalities and fixed point problems in Banach spaces, *J. Inequalities and Applications*, 2013, 2013:334.
44. Shin Min Kang, Arif Rafiq, Nawab Hussain and Young Chel Kwun, Picard Iterations for Nonexpansive and Lipschitz Strongly Accretive Mappings in a real Banach space, *J. Inequalities and Applications*, 2013, 2013:319.
45. Abdullah Alotaibi, Vivek Kumar and N. Hussain, Convergence comparison and stability of Jungck-Kirk type algorithms for common fixed point problems, *Fixed Point Theory and Applications*, 2013, 2013:173.
46. N. Hussain, M. H. Shah, A. Amini-Harandi and Z. Akhtar, Common fixed point theorems for generalized contractive mappings with applications, *Fixed Point Theory and Applications*, 2013, 2013:169.
47. A. Amini-Harandi, N. Hussain and F Akbar, Best proximity point results for generalized contractions in metric spaces, *Fixed Point Theory and Applications*, 2013, 2013:164.
48. P.Salimi, A.Latif, N.Hussain, Modified α - ψ -contractive mappings with applications, *Fixed Point Theory and Applications* 2013, 2013:151.
49. M. A. Kutbi, J. Ahmad, N. Hussain and M. Arshad, Common fixed point results for mappings with rational expressions, *Abstract and Applied Analysis*, vol. 2013, Article ID 549518, 11 pages, 2013. doi:10.1155/2013/549518.
50. N. Hussain, E. Naraghirad and A. Alotaibi, Existence of common fixed points using Bregman nonexpansive retracts and Bregman functions in Banach spaces, *Fixed Point Theory and Applications*, 2013, 2013:113 (29 April 2013)
51. N. Hussain, Vivek Kumar and Marwan A. Kutbi, On Rate of Convergence of Jungck-Type Iterative Schemes, *Abstract and Applied Analysis*, vol. 2013, Article ID 132626, 15 pp.
52. Vivek Kumar, Abdul Latif, Arif Rafiq and N. Hussain, S-iteration process for quasi-contractive mappings, *J. Inequalities and Applications*, 2013, 2013:206 (25 April 2013)

53. Mohammad Masjed-Jamei , N. Hussain, On orthogonal polynomials and quadrature rules related to the second kind of Beta distribution, *J. Inequalities and Applications*, 2013, 2013:157.
54. N. Hussain, E. Karapinar, P. Salimi and F. Akbar, α -admissible mappings and related fixed point theorems, *J. Inequalities and Applications* 2013, 2013:114 (19 March 2013)
55. N. Hussain, E. Karapinar, P. Salimi, P. Vetro, Fixed point results for G^m -Meir-Keeler contractive and G - (α, ψ) -Meir-Keeler contractive mappings, *Fixed Point Theory and Applications* 2013, 2013:34 (21 February 2013)
56. Hussain N, Ciric LB, Cho YJ and Rafiq A, On Mann type iteration method for a family of Hemicontractive mappings in Hilbert spaces, *J. Inequalities and Applications* 2013, 2013:41 (7 February 2013)
57. Nawab Hussain, Arif Rafiq, On modified implicit Mann iteration method involving strictly hemicontractive mappings in smooth Banach spaces, *J. Comput. Anal. Appl.*, VOL. 15, NO.5, 892-902, 2013.
58. Nawab Hussain, Arif Rafiq, Shin Min Kang, Iteration Schemes for Two Hemicontractive Mappings in Arbitrary Banach Spaces, *Int. J. Math. Analysis*, Vol. 7, 2013, no. 18, 863 - 871.
59. Nawab Hussain, Arif Rafiq, Shin Min Kang, Weak and strong convergence of fixed points of demicontractive mappings in smooth banach spaces, *Internat. J. Pure and Applied Mathematics*, vol. 84, no. 3, pp. 251268, 2013.
60. Saud Alsulami, Nawab Hussain, Abdullah Alotaibi, Coupled fixed and coincidence points for monotone operators in partial metric spaces, *Fixed Point Theory and Applications* 2012, 2012:173
61. Nawab Hussain, Abdul Latif, Naeem Shafqat, Weak contractive inequalities and compatible mixed monotone random operators in ordered metric spaces, *J. Inequalities and Applications* 2012, 2012:257.
62. M. Masjed-Jamei, Marwan A. Kutbi and N. Hussain, Some new estimates for the error of Simpson integration rule, *Abstract and Applied Analysis*, vol. 2012, Article ID 239695, 9 pages, 2012. doi:10.1155/2012/239695.
63. Mohammad Masjed-Jamei, N. Hussain, More results on a functional generalization of the Cauchy-Schwarz inequality, *Journal of Inequalities and Applications* 2012, 2012:239
64. N. Hussain, H. K. Nashine, Z. Kadelburg, Saud M. Alsulami, Weakly isotone increasing mappings and endpoints in partially ordered metric spaces, *J. Inequalities and Applications* 2012, 2012:232

65. N. Hussain, A. Rafiq, Lj. B. Ćirić, Saleh Al-Mezel, Almost stability of the Mann type iteration method with error term involving strictly hemiccontractive mappings in smooth Banach spaces, *Journal of Inequalities and Applications* 2012, (2012):207.
66. N. Hussain, Arif Rafiq, Lj B Ćirić, Stability of the Ishikawa iteration scheme with errors for two strictly hemiccontractive operators in Banach spaces, *Fixed Point Theory and Applications*, 2012, (2012):160.
67. Safeer H. Khan, Arif Rafiq, N. Hussain, A three-step iterative scheme for solving nonlinear ϕ -strongly accretive operator equations in Banach spaces, *Fixed Point Theory and Applications*, 2012, (2012):149.
68. N. Hussain and H. K. Pathak, Common fixed point and invariant approximation results for H-operator pair with applications, *Applied Mathematics and Computation* 218 (2012) 1121711225.
69. N. Hussain et al., On The Rate of Convergence of Kirk Type Iterative Schemes, *J. Applied Math.*, Volume 2012, Article ID 526503, 22 pages
70. N. Hussain, M.A. Khamsi and W. A. Kirk, One-local retracts and Banach operator pairs in Metric Spaces, *Applied Mathematics and Computation* 218 (2012),10072–10081.
71. N. Hussain, Zoran Kadelburg, Stojan Radenovic and Falleh R. Al-Solamy, Comparison functions and fixed point results in partial metric spaces, *Abstract and Applied Analysis*, vol. 2012, Article ID 605781, 15 pages, 2012. doi:10.1155/2012/605781.
72. N. Hussain, Abdul Latif and M. H. Shah, Coupled and tripled coincidence point results without compatibility, *Fixed Point Theory and Applications*, 2012, 2012:77.
73. N. Hussain, G. Jungck and M.A. Khamsi, Nonexpansive retracts and weak compatible pairs in metric spaces, *Fixed Point Theory and Applications* 2012, 2012:100
74. Ravi P. Agarwal, Nawab Hussain and Mohamed-Aziz Taoudi, Fixed point theorems in ordered Banach spaces and applications to nonlinear integral equations, *Abstract and Applied Analysis*, vol. 2012, Article ID 245872, 15 pages, 2012.
75. N. Hussain, D. Djoric, Z. Kadelburg and S. Radenovic, Suzuki-type fixed point results in metric type spaces, *Fixed Point Theory and Applications*, 2012, 2012:126.

76. M. H. Shah, Suzana Simic, N. Hussain, A. Sretenovic, and S. Radenovic, Common fixed points theorems for occasionally weakly Compatible pairs on cone metric type spaces, *Journal of Computational Analysis and Applications*, 14 (2012), 290–297.
77. Abdul Latif, N. Hussain and Marwan A Kutbi, Applications of Caristi's fixed point results, *Journal of Inequalities and Applications* 2012, 2012:40.
78. M. H. Shah and N. Hussain, Nonlinear contractions in partially ordered quasi b -metric spaces, *Commun. Korean Math. Soc.*, 27 (2012), No. 1, pp. 117-128.
79. N. Hussain, H. K. Pathak and S. Tiwari, Application of fixed point theorems to best simultaneous approximation in ordered semi-convex structure, *J. Nonlinear Sci. Appl.*, 5 (2012), 294-306.
80. N. Hussain, and A. Alotaibi, Coupled coincidences for multi-valued nonlinear contractions in partially ordered metric spaces, *Fixed Point Theory and Applications* 2011, 2011:82.
81. N. Hussain, M.A. Khamsi and A. Latif, Banach operator pairs and common fixed points in Modular Function Spaces, *Fixed Point Theory and Applications* 2011, 2011:75.
82. N. Hussain and M. H. Shah, KKM mappings in cone b -metric spaces, *Computers and Mathematics with Applications*, 62(2011), 1677-1684.
83. N. Hussain and M. Abbas, Common fixed point results for two new classes of hybrid pairs in symmetric spaces, *Applied Mathematics and Computation*, 218 (2011), 542-547.
84. M. Abbas, N. Hussain, and B.E.Rhoades, Coincidence point theorems for multivalued f -weak contraction mappings and applications, *RACSAM - Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales. Serie A. Matematicas*, Volume 105, Number 2(2011), 261-272, DOI: 10.1007/s13398-011-0036-4
85. N. Hussain, M.A. Khamsi and A. Latif, Banach operator pairs and common fixed points in Hyperconvex Metric Spaces, *Nonlinear Analysis: Theory, Methods & Applications*, 74(2011), 5956-5961.
86. N. Hussain and H. K. Pathak, Subweakly biased pairs and Jungck contractions with applications, *Numerical Functional Analysis and Optimization*, 32(10)(2011),1067-1082.
87. N. Hussain, A. Rafiq, B. Damjanovic and R. Lazovic, On rate of convergence of various iterative schemes, *Fixed Point Theory and Applications* 2011, 2011:45 doi:10.1186/1687-1812-2011-45.

88. N. Hussain, Asymptotically pseudo-contractions, Banach operator pairs and best simultaneous approximations, Fixed Point Theory and Applications, Volume 2011, Article ID 812813 11 pages doi:10.1155/2011/812813.
89. N. Hussain, M.A. Khamsi and A. Latif, Common fixed points for JH -operators and occasionally weakly biased pairs under relaxed conditions, Nonlinear Analysis: Theory, Methods & Applications, 74 (2011) 2133-2140.
90. N. Hussain, M. H. Shah and M. A. Kutbi, Coupled coincidence point theorems for nonlinear contractions in partially ordered quasi-metric spaces with a Q -function, Fixed Point Theory and Applications, Volume 2011, Article ID 703938, 21 pages doi:10.1155/2011/703938
91. N. Hussain, M.H. Shah, and S. Radenovic, Fixed points of weakly contractions through occasionally weak compatibility, J. Computational Analysis and Applications, 13(2011), 532-543.
92. L. Ćirić, M. Abbas, R. Saadati, and N. Hussain, Common fixed points of almost generalized contractive mappings in ordered metric spaces, Applied Mathematics and Computation, 217 (2011) 5784-5789.
93. Yeol Je Cho, M. H. Shah, and N. Hussain, Coupled fixed points of weakly F -contractive mappings in topological spaces, Applied Mathematics Letters, 24 (2011), 1185–1190.
94. Y. J. Cho, N. Hussain and H. K. Pathak, Approximation of nearest common fixed points of asymptotically I -nonexpansive mappings in Banach spaces, Commun. Korean Math. Soc., 26(2011),483-498.
95. N. Hussain, A.R. Khan and Ravi P. Agarwal, Krasnosel'skii and Ky Fan type fixed point theorems in ordered Banach spaces, Journal of Nonlinear and Convex Analysis, 11(3), (2010), 475-489.
96. N. Hussain, A. Amini-Harandi and Y. J. Cho, Approximate endpoints for set-valued contractions in metric spaces, Fixed Point Theory and Applications, Volume 2010, Article ID 614867, 13 pages
97. M.A. Khamsi and N. Hussain, KKM mappings in metric type spaces, Nonlinear Analysis: Theory, Methods & Applications, 73 (2010) 3123-3129.
98. H.K. Pathak and N. Hussain, Common fixed points for P -operator pair with applications,
Applied Mathematics and Computation 217 (2010) 3137-3143.
99. L. Ćirić, N. Hussain, and N. Cakic, Common fixed points for Ćirić type f -weak contraction with applications, Publ. Math. Debrecen, 76/1-2 (2010), 31-49.

100. R. Espinola and N. Hussain, Common fixed points for multimaps in metric spaces, *Fixed Point Theory and Applications*, Volume 2010, Article ID 204981, 14 pages, 2010.
101. M. H. Shah, N. Hussain and A. R. Khan, Common fixed points of weakly contractive and strongly expansive mappings in topological spaces, *Journal of Inequalities and Applications*, Volume 2010, Article ID 746045, 15 pages
102. I. Beg, N. Hussain and S. H. Khan, Strong convergence theorems for common fixed points of Banach operator pair, *Indian J. Math.*, 52(3), (2010), 461-478.
103. N. Hussain, M.A. Kutbi and V. Berinde, Dotson's convexity, Banach operator pair and best simultaneous approximations, *Math. Commun.*, 15(2), (2010), 377-386.
104. N. Hussain and M. A. Khamsi, On asymptotic pointwise contractions in metric spaces, *Nonlinear Analysis: Theory, Methods & Applications* 71 (2009), 4423–4429.
105. N. Hussain and Y.J. Cho, Weak contractions, common fixed points and invariant approximations, *J. Inequalities and Appl.*, Volume 2009, Article ID 390634, 10 pages.
106. N. Hussain and F. Akbar, Generalized I -nonexpansive maps and invariant approximation results, *Southeast Asian Bull. Math.*, 33(2009), 275–284.
107. N. Hussain, V. Berinde and N. Shafqat, Common fixed point and approximation results for generalized ϕ -contractions, *Fixed Point Theory*, 10(2009), 111–124.
108. Lj. B. Ćirić, N. Hussain, F. Akbar and J.S Ume, Common fixed points for Banach operator pairs from the set of best approximations, *Bull. Belg. Math. Soc. Simon Stevin* 16 (2009), 319-336.
109. N. Hussain, Comments on the papers “*Arch Math. (Brno)*, 42 (2006), 51–58”, “*Thai J. Math.*, 3 (2005), 63–70” and “*Math. Communications* 13 (2008), 85–96”, *J. Nonlinear Sci. Appl.* 2, No. 3, (2009), 168–173.
110. N. Hussain and M. A. Kutbi, Common fixed points in the set of best approximations, *Internat. J. Pure and Applied Math.*, 56(2009), 487–496.
111. N. Hussain, Common fixed points in best approximation for Banach operator pairs with Ćirić type I -contractions, *J. Math. Anal. Appl.*, 338(2008), 1351–1363.
112. H.K. Pathak and N. Hussain, Common fixed points for Banach operator pairs with applications, *Nonlinear Analysis: Theory, Methods & Applications*, 69 (2008) 2788-2802.

113. S.H. Khan and N. Hussain, Convergence theorems for nonself asymptotically nonexpansive mappings, *Computers and Mathematics with Applications*, 55 (2008) 2544-2553.
114. N. Hussain, M. Abbas and J. K. Kim, Common fixed point and invariant approximation in Menger convex metric spaces, *Bull. Korean Math. Soc.* 45(2008), 671-680.
115. I. Beg and N. Hussain, Invariant approximation in Menger convex metric space, *Nonlinear Funct. Anal. and Appl.*, 13(2008), 695-704.
116. A.R. Khan, A.A. Domlo and N. Hussain, Coincidences of Lipschitz type hybrid maps and invariant approximation, *Numer. Funct. Anal. Optimiz.*, 28(9-10)(2007), 1165-1177.
117. N. Hussain, B.E.Rhoades and G. Jungck, Common fixed point and invariant approximation results for Gregus type I -contractions, *Numer. Funct. Anal. Optimiz.*, 28(9-10)(2007), 1139-1151.
118. N. Hussain, A. Latif and S. Al-Mezel, Noncommuting maps and invariant approximations, *Demonstratio Mathematica*, 40 No. 4 (2007), 895-905.
119. S.A.Al-Mezel and N. Hussain, On common fixed point and approximation results of Gregus type, *International Mathematical Forum*, Vol. 2, 37(2007), 1839 - 1847.
120. Donal O'Regan and N. Hussain, Generalized I -contractions and pointwise R -subweakly commuting maps, *Acta Math. Sinica* 23, No. 8(2007), 1505-1508.
121. G. Jungck and N. Hussain, Compatible maps and invariant approximations, *J. Math. Anal. Appl.* 325(2007), 1003-1012.
122. N. Hussain, Coincidence points for multivalued maps on non-starshaped domain, *Demonstratio Math.* 39(3)(2006), 579-584.
123. N. Hussain, Generalized I -nonexpansive maps and invariant approximation results in p -normed spaces, *Analysis in Theory and Appl.* 22(2006), 72-80.
124. N. Hussain, Common fixed point and invariant approximation results, *Demonstratio Math.* 39(2)(2006), 389-400.
125. N. Hussain and B. E. Rhoades, C_q -commuting maps and invariant approximations, *Fixed Point Theory Appl.* 2006(2006), Article ID 24543, 9 pp.
126. N. Shahzad and N. Hussain, Deterministic and random coincidence results for f -nonexpansive maps, *J. Math. Anal. Appl.* 323(2006), 1038-1046.

127. N. Hussain and G. Jungck, Common fixed point and invariant approximation results for noncommuting generalized (f, g) -nonexpansive maps, *J. Math. Anal. Appl.* 321(2006), 851-861.
128. N. Hussain, and V. Berinde, Common fixed point and invariant approximation results in certain metrizable topological vector spaces, *Fixed Point Theory Appl.* 2006 (2006), Article ID 23582, 13 pp.
129. A.R. Khan, F. Akbar, N. Sultana and N. Hussain, Coincidence and invariant approximation theorems for generalized f -nonexpansive multivalued mappings, *Internat. J. Math. Math. Sci.* 2006(2006), Article ID 17637, 18 pp.
130. N. Hussain, Donal O'Regan and Ravi P. Agarwal, Common fixed point and invariant approximation results on non-starshaped domains, *Georgian Math. J.* 12(2005), 659-669.
131. A.R. Khan, A. Latif, A. Bano and N. Hussain, Some results on common fixed points and best approximation, *Tamkang J. Math.* 36(2005), 33-38.
132. A.R. Khan and N. Hussain, Random coincidence point theorem in Frechet spaces with applications, *Stoch. Anal. and Appl.* 22(2004), 155-167.
133. I. Beg, A. R. Khan and N. Hussain, Approximation of $*$ -nonexpansive random multivalued operators on Banach spaces, *J. Aust. Math. Soc.* 76(2004), 51-66.
134. A. R. Khan, N. Hussain and A. B. Thaheem, Some generalizations of Ky Fan's best approximation theorem, *Analysis in Theory and Appl.* 20(2004), 189-198.
135. N. Hussain and A.R. Khan, Common fixed point results in best approximation theory, *Applied Math. Letters* 16(2003), 575-580.
136. I. Beg, N. Hussain and A.R. Khan, Fixed point, almost fixed point and best approximation of nonexpansive multivalued mapping in Banach spaces, *Advances Math. Sci. Appl.* 13(2003), 83-111.
137. N. Hussain and A.R.Khan, Common fixed points and best approximation in p -normed spaces, *Demonstratio Math.* 36(2003), 675-681.
138. A. R. Khan and N. Hussain. Characterizations of random approximations in locally convex spaces, *Arch. Math.(BORNO)* 39(2003), 271-275.
139. A.R. Khan, A.B. Thaheem and N. Hussain, Random fixed points and random Approximations, *Southeast Asian Bull. Math.* 27(2003), 289-294.
140. N. Hussain and A. R. Khan, Applications of the best approximation operator to $*$ - nonexpansive maps in Hilbert spaces, *Numer. Funct. Anal. Optimiz.* 24 (3-4)(2003), 327-338.

141. N. Hussain and A. R. Khan, Random fixed points for $*$ -nonexpansive multivalued maps, *Random Operators and Stoch. Equations* 11(2003), 243-254.
142. A. R. Khan, A. B. Thaheem and N. Hussain, A stochastic version of Ky Fan's best approximation theorem, *J. Appl. Math. Stoch. Anal.* 16(2003), 275-282.
143. A. R. Khan and N. Hussain, Random fixed point theorems for $*$ -nonexpansive operators in Frechet spaces, *J. Korean Math. Soc.* 39(2002), 51-60.
144. A.R. Khan and N. Hussain, Random approximations and random fixed points for $*$ -nonexpansive maps, *Math. Sci. Research J.* 6(2002), 174-182.
145. A.R. Khan, A. B. Thaheem and N. Hussain, Random fixed points and random approximations in nonconvex domains, *J. Appl. Math. Stoch. Anal.* 15(2002), 263-270.
146. A. R. Khan, A. Latif , N. Hussain and A. Bano, Coincidence point results in locally convex spaces, *Internat. J. Pure and Appl. Math.* 3(2002), 413-423.
147. A. R. Khan, A. Bano and N. Hussain, Common fixed points in best approximation theory, *Internat. J. Pure Appl. Math.* 2(2002), 411-426.
148. A. R. Khan and N. Hussain, Iterative approximation of fixed points of nonexpansive maps, *Scien. Math. Japon.*, 54(2001), 503-511.
149. A.R. Khan and N. Hussain, Random fixed points for $*$ -nonexpansive random operators, *J. Appl. Math. and Stoch. Anal.* 14(2001), 341-349.
150. A. R. Khan and N. Hussain, An extension of a theorem of Sahab, Khan and Sessa, *Internat. J. Math. and Math. Sci.*, 27(2001), 701-706.
151. A.R. Khan, N. Hussain and L. A. Khan, A note on Kakutani type fixed point theorems, *Internat. J. Math. and Math. Sci.* 24(2000), 231-235.
152. A.R. Khan, N. Hussain and A.B.Thatheem, Applications of fixed point theorems to invariant approximation, *Approx. Theory and Appl.* 16(2000), 48-55.
153. A. R. Khan and N. Hussain, Best approximation and fixed point results, *Indian J. Pure and Appl. Math.* 31(2000), 983-987.
154. A. R. Khan and N. Hussain, Fixed point and best approximation theorems for $*$ -nonexpansive maps, *Punjab Univ. J. Math.* 33(2000), 135-144.
155. G. Mustafa and N. Hussain, Random coincidence point theorems for generalized contractive type random multivalued operators on polish spaces, *J. Pure and Applied Sciences* 19(2000), 17-23.
156. A.R. Khan, N. Hussain and M. Akram, On open mapping and closed graph theorems, *Punjab Univ. J. Math.* 31(1998), 95-102.

157. G. Mustafa and N. Hussain, Random coincidence points of random multivalued operators on polish spaces, J. Pure and Applied Sciences, 17(1998), 58-61.
158. A.R. Khan, N. Hussain and M. Aslam, Mann iterative construction of fixed points in locally convex spaces, J. Natural Sci. and Math. 36(1997), 155-159.
159. A.R. Khan, M. Aslam and N. Hussain, Some best approximation results in locally convex spaces, Approx. Theory and Appl. 12(1996), 29-36.
160. A.R. Khan, N. Hussain and M.A. Shahid, Strong uniqueness in metrizable topological vector spaces, Bull. Malaysian Math. Soc. (Second series) 17(1994), 21-27.